## Subject - Science Summer 2 Year $($ Everyday Materials (continued from Autumn 2) \& Seasonal Change

TAPS Assessment: Bridge Strength
 dull, see-through, not see-through
National Curriculum
The national curriculum for Science aims to ensure
that all pupils:

\[\)|  Working Scientifically Key stage I  |
| :--- |
|  Pupils should be taught to use the following practical  |

\] cientific methe taught to use the following practical teaching of the programme of study content:

§ asking simple questions and recognising that they can be answered in different ways
§ observing closely, using simple equipment
§ performing simple tests
§ identifying and classifying
§ using their observations and ideas to suggest answers to questions
§ gathering and recording data to help in answering questions

## Subject Content

- distinguish between an object and the material from which it is made
- identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials

| NC - Coverage | Disciplinary Knowledge | Substantive Knowledge | Activity Outtine |
| :--- | :--- | :--- | :--- |

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| Disciplinary Knowledge |
| :---: |
| I can sort and classify |

I can
and
of

$$
\begin{aligned}
& \text { and materials using a rang } \\
& \text { of properties }
\end{aligned}
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| Substantive Knowledge |
| :--- |
| I know the names of everyday |
| materials including wood, plastic, |
| metal and water and rock. | metal and wing wood, plastic can describer, and rock. roperties of materials e.g. I know wood is strong, flexible and long-lasting (durable). I know some types of rocks can be hard, durable but other rocks like chalk can be soft and wears away quickly.

Children to complete KWL grid assess their knowledge/recall of materials. At this point children should also be able to complete what 'what I know' with greater depth as part of this unit has been taught in Autumn. Reintroduce key vocabulary.
BBI - Provide children with a range of materials. Recap simple physical properties of materials. Ask children to explore the properties of the provided materials using a prepared table. The class to then engage in a hot seating activity, where the class teacher (and then the children) pretend to be a material and the children ask questions about its properties in order to identify and name the material. Following this activity, children to describe wood, rocks and then a material of their choice using the scientific vocabulary they had been introduced to.

Show chn a tray with the cloth over the objects. Chn to look carefully at the objects and decide which of them is the odd one out. Remind chn to consider material properties e.g. What makes it different from the other objects? Ask chn to get into groups of four, two of the group to select some objects on a tray, one of which is the odd one out. Encourage the pair to discuss their choices together to make sure they are selecting correctly. Ask chn to move beyond the materials and select objects according to the properties of the materials such as

- Compare and group together a variety of everyday materials on the basis of their simple physical properties


## School Context

dentify the materials key local buildings are made from and discuss why those materials have been used Common Misconceptions
Some children may think: - only fabrics are materials - only building materials are materials $\bullet$ only writing materials are materials - the word 'rock' describes an object rather than a material - solid' is another word for hard



